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(FILE 'HOME' ENTERED AT 09:36:24 ON 14 FEB 2007)

FILE 'HCAPLUS' ENTERED AT 09:36:33 ON 14 FEB 2007

ACT RAM975A/A

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-----
L1 (      1554) SEA ABB=ON  PLU=ON  "MUSCARINIC AGONISTS"+PFT,NT/CT
L2 (      2126) SEA ABB=ON  PLU=ON  "MUSCARINIC ANTAGONISTS"+PFT,NT/CT
L3 (     14839) SEA ABB=ON  PLU=ON  "MUSCARINIC RECEPTORS"+PFT,NT,OLD,NEW/C
      T
L4 (      7547) SEA ABB=ON  PLU=ON  NEUROPATHIC PAIN? OR HYPERALGESIA? OR
      ALLODYNIA?
L5 (        46) SEA ABB=ON  PLU=ON  (L1 OR L2 OR L3) AND L4
L6 (     2838) SEA ABB=ON  PLU=ON  (M1 OR M(W)1 OR M4 OR M(W)4) (A) RECEPTOR
      ?
L7 (        12) SEA ABB=ON  PLU=ON  L6 AND L5
L8 (     2651) SEA ABB=ON  PLU=ON  (L1 OR L2 OR L3) AND L6
L9 (    117590) SEA ABB=ON  PLU=ON  M1 OR M(W)1 OR M4 OR M(W)4
L10 (        46) SEA ABB=ON  PLU=ON  L4 AND L9
L11 (        12) SEA ABB=ON  PLU=ON  L8 AND L4
L12 (        33) SEA ABB=ON  PLU=ON  L10 AND THU/RL
L13 (        17) SEA ABB=ON  PLU=ON  L12 AND (M1 OR M4)
L14 (        21) SEA ABB=ON  PLU=ON  L7 OR L11 OR L13
L15 (        63) SEA ABB=ON  PLU=ON  L4 AND MUSCARINIC?
L16 (        16) SEA ABB=ON  PLU=ON  L15 AND (M1 OR M4)
L17 (        22) SEA ABB=ON  PLU=ON  L14 OR L16
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FILE 'MEDLINE' ENTERED AT 09:37:08 ON 14 FEB 2007

ACT RAM975B/A

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L18 (     1615) SEA ABB=ON  PLU=ON  (M1 OR M(W)1 OR M4 OR M(W)4) (A) RECEPTOR
      ?
L19 (     4553) SEA ABB=ON  PLU=ON  DAVIS, R?/AU
L20 (        27) SEA ABB=ON  PLU=ON  VANOVER, K?/AU
L21 (     4987) SEA ABB=ON  PLU=ON  RODRIGUEZ, M?/AU
L22 (         5) SEA ABB=ON  PLU=ON  (L19 OR L20 OR L21) AND L18
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ACT RAM975C/A

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L23 (    13568) SEA ABB=ON  PLU=ON  "MUSCARINIC AGONISTS"+PFT,NT/CT
L24 (       708) SEA ABB=ON  PLU=ON  ("MUSCARINIC RECEPTORS M1"/CT OR
      "MUSCARINIC RECEPTORS M4"/CT)
L25 (     9148) SEA ABB=ON  PLU=ON  NEUROPATHIC PAIN? OR HYPERALGESIA? OR
      ALLODYNIA?
L26 (        10) SEA ABB=ON  PLU=ON  L25 AND ((L23 OR L24))
L27 (     1615) SEA ABB=ON  PLU=ON  (M1 OR M(W)1 OR M4 OR M(W)4) (A) RECEPTOR
      ?
L28 (         3) SEA ABB=ON  PLU=ON  L26 AND L27
L29 (     4553) SEA ABB=ON  PLU=ON  DAVIS, R?/AU
L30 (        27) SEA ABB=ON  PLU=ON  VANOVER, K?/AU
L31 (     4987) SEA ABB=ON  PLU=ON  RODRIGUEZ, M?/AU
L32 (         5) SEA ABB=ON  PLU=ON  (L29 OR L30 OR L31) AND L27
L33 (        10) SEA ABB=ON  PLU=ON  L26 OR L28
L34 (        10) SEA ABB=ON  PLU=ON  L33 NOT L32
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10/809,975

FILE 'EMBASE' ENTERED AT 09:37:49 ON 14 FEB 2007

ACT RAM975D/A

L35 (14623) SEA ABB=ON PLU=ON "MUSCARINIC M1 RECEPTOR"+ALL/CT
L36 (14623) SEA ABB=ON PLU=ON "MUSCARINIC M4 RECEPTOR"+ALL/CT
L37 (11850) SEA ABB=ON PLU=ON NEUROPATHIC PAIN? OR HYPERALGESIA? OR
ALLODYNIA?
L38 (37) SEA ABB=ON PLU=ON (L35 OR L36) AND L37
L39 (10) SEA ABB=ON PLU=ON L38 AND (M1 OR M4)

ACT RAM975E/A

L40 (14623) SEA ABB=ON PLU=ON "MUSCARINIC M1 RECEPTOR"+ALL/CT
L41 (14623) SEA ABB=ON PLU=ON "MUSCARINIC M4 RECEPTOR"+ALL/CT
L42 (11850) SEA ABB=ON PLU=ON NEUROPATHIC PAIN? OR HYPERALGESIA? OR
ALLODYNIA?
L43 (37) SEA ABB=ON PLU=ON (L40 OR L41) AND L42
L44 (3401) SEA ABB=ON PLU=ON DAVIS, R?/AU
L45 (29) SEA ABB=ON PLU=ON VANOVER, K?/AU
L46 (4027) SEA ABB=ON PLU=ON RODRIGUEZ, M?/AU
L47 (23) SEA ABB=ON PLU=ON (L44 OR L45 OR L46) AND ((L40 OR L41))

L48 (0) SEA ABB=ON PLU=ON L47 AND L42
L49 (0) SEA ABB=ON PLU=ON L47 AND L43
L50 (0) SEA ABB=ON PLU=ON L48 OR L49

FILE 'DRUGU' ENTERED AT 09:38:50 ON 14 FEB 2007

E MUSCARINIC AGONISTS/CT

L51 3717 SEA ABB=ON PLU=ON MUSCARINIC+ALL/CT
L52 2946 SEA ABB=ON PLU=ON NEUROPATHIC PAIN? OR HYPERALGESIA? OR
ALLODYNIA?
L53 8 SEA ABB=ON PLU=ON L51 AND L52
L54 356 SEA ABB=ON PLU=ON DAVIS, R?/AU
L55 26 SEA ABB=ON PLU=ON VANOVER, K?/AU
L56 465 SEA ABB=ON PLU=ON RODRIGUEZ, M?/AU
L57 14 SEA ABB=ON PLU=ON (L54 OR L55 OR L56) AND L51
L58 8 SEA ABB=ON PLU=ON L53 NOT L57
L59 0 SEA ABB=ON PLU=ON L57 AND L52
L60 1190 SEA ABB=ON PLU=ON (M1 OR M(W)1 OR M4 OR M(W)4) (2A) RECEPTO
R?
L61 6 SEA ABB=ON PLU=ON L52 AND L60
L62 0 SEA ABB=ON PLU=ON L57 AND L61
L63 11 SEA ABB=ON PLU=ON L53 OR L61
L64 6 SEA ABB=ON PLU=ON L63 AND MUSCARINIC RECEPTOR?
L65 11 SEA ABB=ON PLU=ON L63 OR L64

FILE 'REGISTRY' ENTERED AT 09:45:18 ON 14 FEB 2007

L66 1 SEA ABB=ON PLU=ON 560085-17-8 /RN
L67 1 SEA ABB=ON PLU=ON 372197-81-4/RN
L68 1 SEA ABB=ON PLU=ON 560083-42-3/RN

FILE 'HCAPLUS' ENTERED AT 09:46:50 ON 14 FEB 2007

L69 3 SEA ABB=ON PLU=ON L66
L70 2 SEA ABB=ON PLU=ON L67
L71 4 SEA ABB=ON PLU=ON L68
L72 0 SEA ABB=ON PLU=ON L66/D OR L66/DP
L73 0 SEA ABB=ON PLU=ON L67/D OR L67/DP
L74 0 SEA ABB=ON PLU=ON L68/D OR L68/DP
L75 5 SEA ABB=ON PLU=ON (L69 OR L70 OR L71)

10/809,975

L76 6225 SEA ABB=ON PLU=ON DAVIS, R?/AU
L77 32 SEA ABB=ON PLU=ON VANOVER, K?/AU
L78 4519 SEA ABB=ON PLU=ON RODRIGUEZ, M?/AU
L79 2 SEA ABB=ON PLU=ON (L76 OR L77 OR L78) AND L75
L80 3 SEA ABB=ON PLU=ON L75 NOT L79

FILE 'BIOSIS' ENTERED AT 10:00:04 ON 14 FEB 2007

E MUSCARINIC AGONISTS/CT
L81 76 SEA ABB=ON PLU=ON "MUSCARINIC AGONISTS"+PFT,NT/CT
E MUSCARINIC RECEPTOR/CT
L82 1090 SEA ABB=ON PLU=ON "MUSCARINIC RECEPTOR"+PFT,NT/CT
L83 10733 SEA ABB=ON PLU=ON NEUROPATHIC PAIN? OR HYPERALGESIA? OR
ALLODYNIA?
L84 9 SEA ABB=ON PLU=ON (L81 OR L82) AND L83
L85 3654 SEA ABB=ON PLU=ON (M1 OR M(W)1 OR M4 OR M(W)4) (2A) RECEPTO
R?
L86 13 SEA ABB=ON PLU=ON L83 AND L85
L87 22 SEA ABB=ON PLU=ON L84 OR L86
L88 5743 SEA ABB=ON PLU=ON DAVIS, R?/AU
L89 59 SEA ABB=ON PLU=ON VANOVER, K?/AU
L90 5583 SEA ABB=ON PLU=ON RODRIGUEZ, M?/AU
L91 16 SEA ABB=ON PLU=ON (L88 OR L89 OR L90) AND L85
L92 0 SEA ABB=ON PLU=ON L91 AND L83
L93 13 SEA ABB=ON PLU=ON L87 AND L85

FILE 'HCAPLUS, MEDLINE, EMBASE, DRUGU, BIOSIS' ENTERED AT 10:07:04 ON
14 FEB 2007

L94 46 DUP REM L80 L17 L34 L39 L65 L93 (23 DUPLICATES REMOVED)
ANSWERS '1-25' FROM FILE HCAPLUS
ANSWERS '26-30' FROM FILE MEDLINE
ANSWERS '31-35' FROM FILE EMBASE
ANSWERS '36-43' FROM FILE DRUGU
ANSWERS '44-46' FROM FILE BIOSIS
D 1-25 IBIB ED AB HITRN HITSTR HITIND
D 26-46 IBIB AB IND
L95 6 DUP REM L79 L22 L50 L59 L92 (1 DUPLICATE REMOVED)
ANSWERS '1-2' FROM FILE HCAPLUS
ANSWERS '3-6' FROM FILE MEDLINE

10/809,975

L34 10 SEA FILE=MEDLINE ABB=ON PLU=ON L33 NOT L32

=> d que 139

L35 (14623) SEA FILE=EMBASE ABB=ON PLU=ON "MUSCARINIC M1 RECEPTOR"+AL
L/CT
L36 (14623) SEA FILE=EMBASE ABB=ON PLU=ON "MUSCARINIC M4 RECEPTOR"+AL
L/CT
L37 (11850) SEA FILE=EMBASE ABB=ON PLU=ON NEUROPATHIC PAIN? OR
HYPERALGESIA? OR ALLODYNIA?
L38 (37) SEA FILE=EMBASE ABB=ON PLU=ON (L35 OR L36) AND L37
L39 10 SEA FILE=EMBASE ABB=ON PLU=ON L38 AND (M1 OR M4)

=> d que 165

L51 3717 SEA FILE=DRUGU ABB=ON PLU=ON MUSCARINIC+ALL/CT
L52 2946 SEA FILE=DRUGU ABB=ON PLU=ON NEUROPATHIC PAIN? OR
HYPERALGESIA? OR ALLODYNIA?
L53 8 SEA FILE=DRUGU ABB=ON PLU=ON L51 AND L52
L60 1190 SEA FILE=DRUGU ABB=ON PLU=ON (M1 OR M(W)1 OR M4 OR
M(W)4) (2A) RECEPTOR?
L61 6 SEA FILE=DRUGU ABB=ON PLU=ON L52 AND L60
L63 11 SEA FILE=DRUGU ABB=ON PLU=ON L53 OR L61
L64 6 SEA FILE=DRUGU ABB=ON PLU=ON L63 AND MUSCARINIC RECEPTOR?

L65 11 SEA FILE=DRUGU ABB=ON PLU=ON L63 OR L64

=> d que 193

L81 76 SEA FILE=BIOSIS ABB=ON PLU=ON "MUSCARINIC AGONISTS"+PFT,N
T/CT
L82 1090 SEA FILE=BIOSIS ABB=ON PLU=ON "MUSCARINIC RECEPTOR"+PFT,N
T/CT
L83 10733 SEA FILE=BIOSIS ABB=ON PLU=ON NEUROPATHIC PAIN? OR
HYPERALGESIA? OR ALLODYNIA?
L84 9 SEA FILE=BIOSIS ABB=ON PLU=ON (L81 OR L82) AND L83
L85 3654 SEA FILE=BIOSIS ABB=ON PLU=ON (M1 OR M(W)1 OR M4 OR
M(W)4) (2A) RECEPTOR?
L86 13 SEA FILE=BIOSIS ABB=ON PLU=ON L83 AND L85
L87 22 SEA FILE=BIOSIS ABB=ON PLU=ON L84 OR L86
L93 13 SEA FILE=BIOSIS ABB=ON PLU=ON L87 AND L85

=> dup rem 180 117 134 139 165 193

FILE 'HCAPLUS' ENTERED AT 10:07:04 ON 14 FEB 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE 'MEDLINE' ENTERED AT 10:07:04 ON 14 FEB 2007

FILE 'EMBASE' ENTERED AT 10:07:04 ON 14 FEB 2007

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FILE 'DRUGU' ENTERED AT 10:07:04 ON 14 FEB 2007

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FILE 'BIOSIS' ENTERED AT 10:07:04 ON 14 FEB 2007

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PROCESSING COMPLETED FOR L80

=> d que 180

| | | | | | | |
|-----|------|-----|---------------|--------|--------|--------------------------------|
| L66 | 1 | SEA | FILE=REGISTRY | ABB=ON | PLU=ON | 560085-17-8 /RN |
| L67 | 1 | SEA | FILE=REGISTRY | ABB=ON | PLU=ON | 372197-81-4/RN |
| L68 | 1 | SEA | FILE=REGISTRY | ABB=ON | PLU=ON | 560083-42-3/RN |
| L69 | 3 | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | L66 |
| L70 | 2 | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | L67 |
| L71 | 4 | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | L68 |
| L75 | 5 | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | (L69 OR L70 OR L71). |
| L76 | 6225 | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | DAVIS, R?/AU |
| L77 | 32 | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | VANOVER, K?/AU |
| L78 | 4519 | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | RODRIGUEZ, M?/AU |
| L79 | 2 | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | (L76 OR L77 OR L78) AND L75 |
| L80 | 3 | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | L75 NOT L79 |

=> d que 117

| | | | | | | | |
|-----|---|---------|-----|--------------|--------|--------|---|
| L1 | (| 1554) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | "MUSCARINIC AGONISTS"+PFT, NT/CT |
| L2 | (| 2126) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | "MUSCARINIC ANTAGONISTS"+P FT,NT/CT |
| L3 | (| 14839) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | "MUSCARINIC RECEPTORS"+PFT ,NT,OLD,NEW/CT |
| L4 | (| 7547) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | NEUROPATHIC PAIN? OR HYPERALGESIA? OR ALLODYNIA? |
| L5 | (| 46) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | (L1 OR L2 OR L3) AND L4 |
| L6 | (| 2838) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | (M1 OR M(W)1 OR M4 OR M(W)4) (A) RECEPTOR? |
| L7 | (| 12) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | L6 AND L5 |
| L8 | (| 2651) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | (L1 OR L2 OR L3) AND L6 |
| L9 | (| 117590) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | M1 OR M(W)1 OR M4 OR M(W)4 |
| L10 | (| 46) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | L4 AND L9 |
| L11 | (| 12) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | L8 AND L4 |
| L12 | (| 33) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | L10 AND THU/RL |
| L13 | (| 17) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | L12 AND (M1 OR M4) |
| L14 | (| 21) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | L7 OR L11 OR L13 |
| L15 | (| 63) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | L4 AND MUSCARINIC? |
| L16 | (| 16) | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | L15 AND (M1 OR M4) |
| L17 | | 22 | SEA | FILE=HCAPLUS | ABB=ON | PLU=ON | L14 OR L16 |

=> d que 134

| | | | | | | | |
|-----|---|--------|-----|--------------|--------|--------|---|
| L23 | (| 13568) | SEA | FILE=MEDLINE | ABB=ON | PLU=ON | "MUSCARINIC AGONISTS"+PFT, NT/CT |
| L24 | (| 708) | SEA | FILE=MEDLINE | ABB=ON | PLU=ON | ("MUSCARINIC RECEPTORS M1"/CT OR "MUSCARINIC RECEPTORS M4"/CT) |
| L25 | (| 9148) | SEA | FILE=MEDLINE | ABB=ON | PLU=ON | NEUROPATHIC PAIN? OR HYPERALGESIA? OR ALLODYNIA? |
| L26 | (| 10) | SEA | FILE=MEDLINE | ABB=ON | PLU=ON | L25 AND ((L23 OR L24)) |
| L27 | (| 1615) | SEA | FILE=MEDLINE | ABB=ON | PLU=ON | (M1 OR M(W)1 OR M4 OR M(W)4) (A) RECEPTOR? |
| L28 | (| 3) | SEA | FILE=MEDLINE | ABB=ON | PLU=ON | L26 AND L27 |
| L29 | (| 4553) | SEA | FILE=MEDLINE | ABB=ON | PLU=ON | DAVIS, R?/AU |
| L30 | (| 27) | SEA | FILE=MEDLINE | ABB=ON | PLU=ON | VANOVER, K?/AU |
| L31 | (| 4987) | SEA | FILE=MEDLINE | ABB=ON | PLU=ON | RODRIGUEZ, M?/AU |
| L32 | (| 5) | SEA | FILE=MEDLINE | ABB=ON | PLU=ON | (L29 OR L30 OR L31) AND L27 |
| L33 | (| 10) | SEA | FILE=MEDLINE | ABB=ON | PLU=ON | L26 OR L28 |

PROCESSING COMPLETED FOR L17
 PROCESSING COMPLETED FOR L34
 PROCESSING COMPLETED FOR L39
 PROCESSING COMPLETED FOR L65
 PROCESSING COMPLETED FOR L93

L94 46 DUP REM L80 L17 L34 L39 L65 L93 (23 DUPLICATES REMOVED)

ANSWERS '1-25' FROM FILE HCAPLUS
 ANSWERS '26-30' FROM FILE MEDLINE
 ANSWERS '31-35' FROM FILE EMBASE
 ANSWERS '36-43' FROM FILE DRUGU
 ANSWERS '44-46' FROM FILE BIOSIS

=> d 1-25 ibib ed ab hitrn hitstr hitind

L94 ANSWER 1 OF 46 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2004:1010285 HCAPLUS Full-text

DOCUMENT NUMBER: 142:16720

TITLE: Intrathecal clonidine inhibits mechanical
 allodynia via activation of the spinal
 muscarinic M1 receptor

AUTHOR(S): in streptozotocin-induced diabetic mice
 Koga, Kohei; Honda, Kenji; Ando, Suguru; Harasawa,
 Ichiro; Kamiya, Hiro-O.; Takano, Yukio

CORPORATE SOURCE: Department of Physiology and Pharmacology, Faculty
 of Pharmaceutical Sciences, Fukuoka University,
 Fukuoka, 814-0180, Japan

SOURCE: European Journal of Pharmacology (2004), 505(1-3),
 75-82

CODEN: EJPHAZ; ISSN: 0014-2999

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 24 Nov 2004

AB We examined the involvement of the spinal muscarinic receptors in the
 clonidine-induced antiallodynic effects. Mech. sensitivity was assessed by
 stimulating the hind paw with von Frey filaments. In streptozotocin-treated
 (200 mg/kg, i.v.) diabetic mice, hypersensitivity to mech. stimulation
 appeared 3 days after streptozotocin administration, and persisted for 11
 days. This mech. hypersensitivity (allodynia) was inhibited by the
 intrathecal (i.t.) injection of clonidine. The muscarinic receptor antagonist
 atropine (i.t.) and α 2-adrenoreceptor antagonist yohimbine (i.t. or s.c.
 injection) abolished the antiallodynic effect of clonidine. The effect was
 mimicked by the muscarinic M1 receptor antagonist pirenzepine, but not by the
 muscarinic M2 receptor antagonist methoctramine or the muscarinic M3 receptor
 antagonist 4-DAMP (4-diphenyl-acetoxy-N-methylpiperidine methiodide). In
 addition, the mech. hypersensitivity in diabetic mice was reduced by the
 selective muscarinic M1 receptor agonist McN-A-343 (4-(m-chlorophenyl-
 carbamoyloxy)-2-butynyltrimethylammonium chloride) (i.t.). These results
 suggest that spinal muscarinic M1 receptors participate in the antiallodynic
 effect of clonidine in diabetic mice.

CC 1-11 (Pharmacology)

ST spinal muscarinic M1 receptor clonidine
 allodynia diabetes

IT Muscarinic receptors
 (M1; intrathecal clonidine inhibits mech.
 allodynia via activation of the spinal muscarinic
 M1 receptor in streptozotocin-induced diabetic
 mice)

IT Pain
 Skin, disease